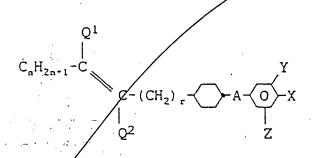
Patent Claims

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Phenylcyclohexanes of the formula I



in which n is 0 to $7\sqrt{Q^1}$ and Q^2 are H, or one of these radicals is alternatively CH_3 , r is 0, 1, 2, 3, 4 or 5, A is trans-1,4-cyclohexylene, 1,4-phenylene, 3-fluoro-1,4-phenylene or a single bond, X is F, Cl, $-CF_3$, -CN, $-OCF_3$ or $-OCH_2$, and Y and Z are each, independently of one another, H or F, with the proviso that, in the case where A is a single bond, $Q^1 = Q^2 = H$ and simultaneously X = CN, Y and/or Z are F.

- 2. Phenylcyclohexanes according to claim 1, characterized in that X is F.Cl., -CF₃ or -OCF₃.
- 3. Phenylcyclohexanes according to at least one of claims 1 to 2, characterized in that Y = Z = H.
- 4. Phenylcyclohexanes according to at least one of claims 1 to 2, characterized in that Y = F and Z = H or

5. Phenylcyclohekanes according to claim 1, characterized in that X = CN, Y = F and Z = H or F.

- 6. Use of the phenyleyclohexanes of the formula I according to claim 1 as components of liquid-crystalline media for electrooptical displays.
- 7. Liquid-crystalline medium for electrooptical displays having at least two liquid-crystalline components, characterized in that at least one component is a phenylcyclohexane of the formula I according to claim 1.
- 8. Electrooptical display based on a liquid-crystal cell, characterized in that the liquid-crystal cell contains a medium according to claim 7.

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